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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/614,166	10/614,166 07/08/2003		Won Tae Kim	YHK-0107	6504	
34610	7590	07/21/2005		EXAMINER		
FLESHNE		I, LLP		DINH, TE	INH VO	
P.O. BOX 221200 CHANTILLY, VA 20153				ART UNIT	PAPER NUMBER	
511 II 11 20155				2821	2821	

DATE MAILED: 07/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
OFFI - A - 4' O		10/614,166	KIM ET AL.				
Office Action Su	ımmary	Examiner	Art Unit				
		Trinh Vo Dinh	2821				
The MAILING DATE of Period for Reply	this communication app	ears on the cover sheet with the c	orrespondence address				
THE MAILING DATE OF THIS  - Extensions of time may be available un after SIX (6) MONTHS from the mailing  - If the period for reply specified above is  - If NO period for reply is specified above  - Failure to reply within the set or extende	S COMMUNICATION. der the provisions of 37 CFR 1.13 date of this communication. less than thirty (30) days, a reply, the maximum statutory period w ded period for reply will, by statute, an three months after the mailing	'IS SET TO EXPIRE 3 MONTH( 36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE date of this communication, even if timely filed	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠ Responsive to commun	ication(s) filed on 07 Ju	ly 2005.					
2a)⊠ This action is FINAL.	` ′	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-15</u> is/are per 4a) Of the above claim(s 5)□ Claim(s) is/are a 6)⊠ Claim(s) <u>1-15</u> is/are rejection 7)□ Claim(s) is/are of 8)□ Claim(s) are sub	s) is/are withdrav llowed. ected. bjected to.						
Application Papers	. •						
Applicant may not request Replacement drawing she	28 July 2003 is/are: a) that any objection to the objection to the objection including the corrections.	r.  ☑ accepted or b) ☐ objected to be drawing(s) be held in abeyance. See on is required if the drawing(s) is objected.  If the drawing(s) is objected.	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	•						
12) Acknowledgment is made a) All b) Some * c) 1. Certified copies of 2. Copies of the certification from to	None of:  f the priority documents  f the priority documents  tified copies of the prior  he International Bureau	s have been received in Application ity documents have been received	on No ed in this National Stage				
500 the attached detailed	Cinico dollori foi a list (	or the certified copies flot receive					
Attachment(s)							
1) Notice of References Cited (PTO-8	•	4) Interview Summary					
<ol> <li>Notice of Draftsperson's Patent Dra</li> <li>Information Disclosure Statement(s Paper No(s)/Mail Date</li> </ol>		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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#### **DETAILED ACTION**

This is a response to the communication filed 07/07/2005. The rejected under 103(a) to references Kang in view of Moon has been withdrawn in view of the communication. However, the previously amended claims 1-10 and previously added claims 11-15 necessitate a new ground of rejection as discussed below.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 4-6, 9-10 drawn to the apparatus and the method claims 1-3, 7-8 and 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Myung (US 2002/0135544 A1) in view of Moon (US Patent 6,384,802 B1).

With respect to claim 4, Myung discloses a plasma display panel (60 in Fig. 5), a driving apparatus for a plasma display panel (abstract) having an active area (61) for displaying picture and a non-display area (Fig. 5 or col. 3 claim 1) being adjacent at the upper and lower sides of the active area (Fig. 5), at least partial ones electrode (Ym) at the active area (61) and at least partial ones (DF1, DS1) of dummy electrodes (DFn, DSn) positioned within the non-display area.

However, Myung does not suggest the driver for driving the scan electrodes and the dummy electrodes with an identical signal. Moon discloses a driver (42C in Fig. 9, or col. 15, lines 20-30) for driving scan electrodes (Y3, Y6) and dummy electrode (Yd) with an identical

signal (Fig. 20 shows waveform of driving signal applied to scanning electrodes Y3, Y6 and the dummy electrode Yd are identical). It would have been obvious to one having ordinary skill in the art at the time the invention was made to drive Myung's scan and dummy electrodes employing the scanning driver with an identical signal as taught by Moon. Doing so would improve brightness and discharge efficiency of the PDP and also reduce the manufacturing cost.

With respect to claim 5, Moon further discloses, in Figs. 19-20, a sustain driver (42C) for driving the dummy electrodes (Yd) and sustain electrodes (Y3, Y6) during at least partial period of an initialization period for initializing cells and an address period for selecting the cells (col. 14 line 59 to col. 15 line 30).

With respect to claim 6, Moon further discloses a scan driver (42C) for applying an initializing waveform (col. 14, lines 59+), for initializing entire cells to at least partial ones (Yd) of the dummy electrodes at the non-display area and the scan electrodes (Y3, Y6) at the active area during initializing period and for applying the direct current voltage (col. 15, lines 24-30 or Fig. 20) to the at least partial ones of the dummy electrodes (Yd) at the non-display area and the scan electrodes (Y3, Y6) at the active area during the address period (col. 14, lines 59+).

With respect to claims 9-10, Moon furthermore discloses, in Fig. 20 and col. 14 line 59 to col. 15 line 30, the at least partial ones of the scan electrodes/sustain electrode (Y3, Y6) and the at least ones of the dummy electrodes (Yd) receiving similar signals during part of an initialization period and receive a similar direct current voltage during at least part of an address period.

With respect to claims 1-3, 7-8, 11-13, the apparatus discussed above would perform the claimed method.

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With respect to claims 14-15, Moon discloses a third signal is applying to sustain electrodes of the PDP and a fourth signal being applying to dummy electrodes (driver 42C drives sustaining electrodes Y3, Y6 and dummy electrode Yd with signals as shown in Fig. 20) during part of an initialization period and during part of an address period (col. 14 line 59 to col. 15 line 30), and signals including a direct voltage (col. 15 lines 23-30) applied during part of the initialization period and part of the address period.

#### Conclusion

3. Applicant's amendment necessitated the new ground of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

## Inquiry

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trinh Vo Dinh whose telephone number is (571) 272-1821. The examiner can normally be reached on Monday to Friday from 9:30AM to 6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Trinh Vo Dinh

July 20. 2005